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PATENT & TRADEMARK OFFICE

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Docket No. SYB/0089.01

PTO/SB/21 (05-03)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/600,932
		Filing Date	June 20, 2003
		First Named Inventor	Nica
		Art Unit	2171
		Examiner Name	Unassigned
Total Number of Pages in This Submission	227	Attorney Docket Number	**SYB/0089.01**

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Reply
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
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- ☐ After Allowance communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
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Remarks

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	John A. Smart
Signature	✓ Digitally signed by John A. Smart Date: 2003.12.22
Date	December 22, 2003

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	10/600,932
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		STEINEBRUNN, M. ET AL, Heuristic and Randomized Optimization for the Join Ordering Problem, VLDB Journal, Vol. 6: 191-208, 1997	
		VANCE, B. ET AL, Rapid Bushy Join-Order Optimization with Cartesian Products, Proceedings of ACM SIGMOD Conference of Management of Data, pp 35-46, June 1996	
		CLUET, S. ET AL, On the Complexity of Generating Optimal Left-Deep Processing Trees with Cross Products, Proceedings of the Fifth International Conference on Database Theory, pp 54-67, January 1995	
		GALINDO-LEGARIA, C., Uniformly-Distributed Random Generation of Join Orders, Proceedings of the International Conference on Database Theory, pp. 280-293, January 1995	
		GALINDO-LEGARIA, C. ET AL, Fast, Randomized Join-order Selection - Why Use Transformations?, Proceedings of the International Conference on Very Large Data Bases, pp. 85-95, September 1994	
		SWAMI, A. ET AL, A Polynomial Time Algorithm for Optimizing Join Queries, Proceedings of the IEEE Conference of Data Engineering, pp 345-354, April 1993	
		ONO, K. ET AL, Measuring the Complexity of Join Enumeration in Query Optimization, Proceedings of the 16th International Conference on Very Large Data Bases, pp. 314-325, August 1990	
		IOANNIDIS, Y.E. ET AL, Randomized Algorithms for Optimizing Large Join Queries, Proceedings of ACM SIGMOD Conference of Management of Data, pp 312-321, April 1990	
		SWAMI, A., Optimization of Large Join Queries: Combining Heuristics and Combinatorial Techniques, Proceedings of ACM SIGMOD Conference of Management of Data, pp 367-376, May 1989	
		SWAMI, A. ET AL, Optimization of Large Join Queries, Proceedings of ACM SIGMOD Conference of Management of Data, pp 8-17, May 1988	
		IOANNIDIS, Y.E. ET AL, Query Optimization by Simulated Annealing, Proceedings of ACM SIGMOD Conference of Management of Data, pp 9-22, May 1987	

Examiner Signature		Date Considered	

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(use as many sheets as necessary)

Sheet	2	of	2

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		KRISHNAMURTHY, R. ET AL, Optimization of Non-recursive Queries, Proceedings of the 12th International Conference on Very Large Data Bases, pp. 128-137, August 1986	
		IBARAKI, T. ET AL, On the Optimal Nesting Order for Computing N-Relational Joins, ACM Transaction on Database Systems, Vol 9: pp. 482-502, September 1984	
		SELINGER, P.G. ET AL, Access Path Selection in a Relational Database Management System, Proceedings of ACM SIGMOD Conference of Management of Data, pp 23-34, May 1979	
		WONG, E. ET AL, Decomposition - a Strategy for Query Processing, ACM Transaction on Database Systems, 1(3): pp 223-241, September 1976	

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